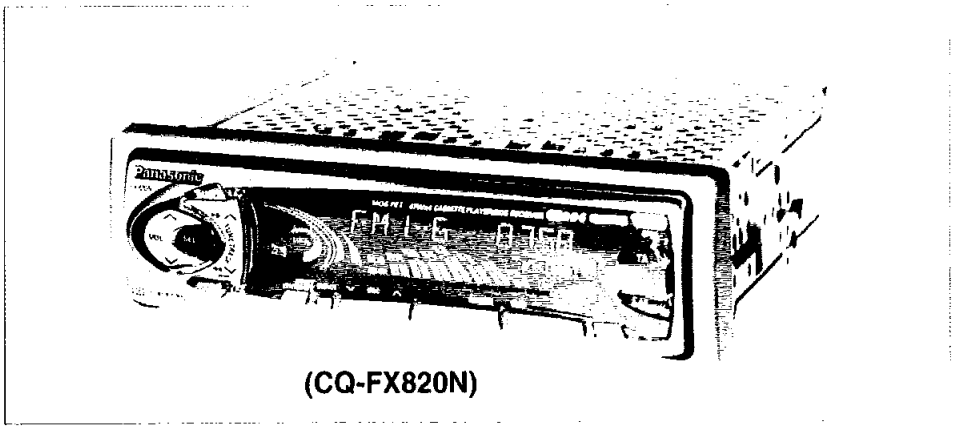
Operating Instructions
Bedienungsanleitung
Manuel d'instructions
Gebruiksaanwijzing
Bruksanvisning
Manuale di istruzioni
Manual de Instrucciones

High-Power Cassette Player/RDS Receiver with Changer Control
Hochleistungs-Cassettenspieler/RDS-Receiver mit Wechslersteuerung
Lecteur de cassette à haute puissance/ Poste récepteur RDS avec commande de changeur
Hoog-vermogen cassette-speler/RDS radio met wisselaar bediening
Högeffekts kassettspelare/RDS-mottagare med skivväxlarreglage
Sintonizzatore RDS/riproduttore di cassette ad alta potenza con controllo cambiadischi (AUTORADIO)
Reproductor de cassettes/Receptor RDS de alta potencia con control de cambiador

CQ-FX820/FX720N



(CQ-FX820N)

Panasonic

Please read these instructions carefully before using this product and save this manual for future use.
Bitte lesen Sie diese Bedienungsanleitung vor der Verwendung dieses Produktes aufmerksam durch und bewahren Sie sie danach für spätere Nachschlagzwecke sorgfältig auf.
Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
Leest u deze instructie alstublieft zorgvuldig door voor u dit product in gebruik neemt en bewaar deze handleiding voor later gebruik.
Läs igenom denna bruksanvisning noga innan produkten tas i bruk. Spara bruksanvisningen för framtida behov.
Si prega di leggere attentamente queste istruzioni prima di usare questo prodotto e di conservare questo manuale per usi futuri.
Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

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Panasonic le da la bienvenida a la familia constantemente en aumento de poseedores de productos electrónicos. Nos esforzamos en proporcionarle las ventajas de la ingeniería mecánica y electrónica de precisión, de una fabricación con componentes cuidadosamente seleccionados, y de un montaje realizado por personas orgullosas de la reputación que su trabajo ha cimentado para nuestra empresa. Estamos seguros de que este producto le proporcionará muchas horas de distracción y, una vez comprobada la calidad, el valor y la fiabilidad incorporados, usted también se sentirá orgulloso de pertenecer a nuestra familia.

Precauciones

Nivel de volumen
Para su seguridad en la conducción, mantenga el nivel de volumen suficientemente bajo para estar atento a la carretera y las condiciones del tráfico.

Lavado del automóvil
Procure no exponer este equipo (incluidos los altavoces y la cinta) al agua o a excesiva humedad, a fin de evitar cortocircuitos que podrían causar un incendio u otros daños.

Ventilación del automóvil
Si su coche está estacionado durante varias horas a plena luz del sol, la temperatura interior del mismo puede aumentar considerablemente. Por ello, es recomendable poner el vehículo en marcha y dejar que se enfríe el interior antes de utilizar el aparato.

Alimentación
Este equipo ha sido diseñado para su uso en automóviles con una tensión de 12 V mediante sistema de batería con negativo a tierra.

Mecanismo de la cinta
Mantenga alejados del mecanismo de la cinta y de su cabezal imanes, destornilladores y otros objetos metálicos.

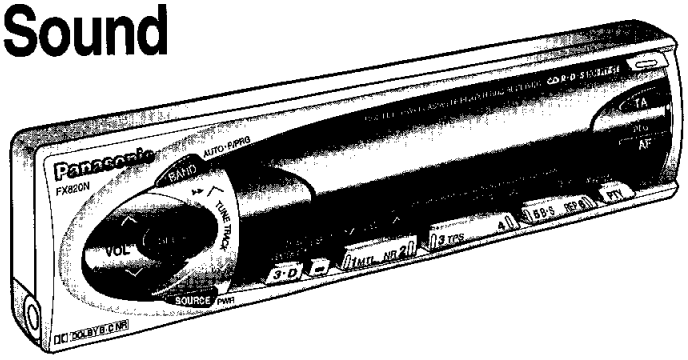
Servicio
Este aparato ha sido fabricado con piezas de alta precisión. No intente desmontarlo ni ajustar ninguna pieza. Para la reparación, consulte al Servicio Técnico de Panasonic más próximo.

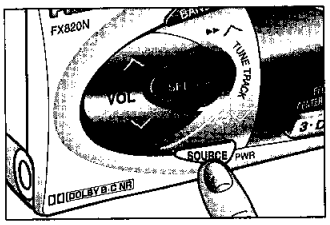
Sobre la reposición de la Memoria
La memoria preajustada se apaga y vuelve al ajuste original de la fábrica cuando se desconecta el conector de alimentación o la batería.

Nota: Este manual de instrucciones de operación sirve para dos modelos CQ-FX820N y CQ-FX720N. Las diferencias entre estos modelos se mencionan a continuación. Todas las ilustraciones de este manual representan el modelo CQ-FX820N, a menos que se especifique lo contrario.

Características \ Modelo	CQ-FX820N	CQ-FX720N
Potencia máx. de salida	47 W x 4	45 W x 4
Potencia máx. de salida del altavoz central	5 W	Ninguna
Reducción de Ruido DOLBY	B/C	B
Nivel de salida del altavoz de graves secundarios	5 V	2 V
3•DSB	4 altavoces + Altavoz central	4 altavoces
Analizador de espectro	Sí	Ninguna
Medidor de nivel	Ninguna	Sí
Nivel de salida de preamplificador	5 V	2 V

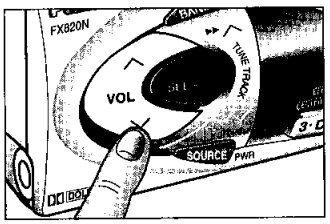
Power and Sound Controls





Power

Turn the key in the ignition until the accessory indicator lights.
Press **[SOURCE]**(PWR) to switch on the power.
Press and hold **[SOURCE]**(PWR) again for more than 2 seconds to switch off the power. When the power is switched off, the panel removal alarm sounds. (See page 43 about the panel removal alarm.)
Note: When the power is switched on for the first time, a demonstration message appears on the display. To cancel this display, press **[▬]** (DISP/CT).



Volume

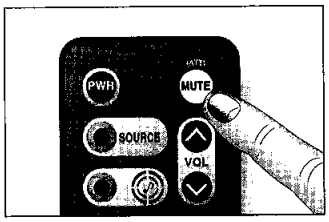
- Press **[∧VOL]** or **[∨VOL]** to increase or decrease the volume.

Volume Level (0 to 40)

- Press and hold **[∧VOL]** or **[∨VOL]** for more than 0.5 seconds to change the numeric level in sequence.

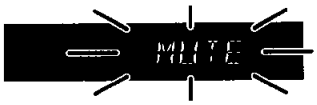
Note: In the VOL mode, the display will be back to regular operation mode with no operation for more than 2 seconds.

Anti-Volume-Blast Circuit
This unit has a safety function which slowly raises volume level when power is switched back on after it is turned off at a specific level (20) or higher.



Mute (Only for Remote Control)

- Press **[MUTE]** to mute the sound completely.



- Press **[MUTE]** again to cancel.

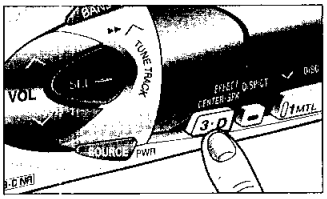
3•DSB (3-Dimensional Surround and Super Bass)

3•DSB System

- For Stereo Sound
  This new sound system combines the 3-dimensional sound from the two front speakers (and the center speaker for the CQ-FX820N only) with the super bass from the rear speakers.
- For AM//FM Monaural Sound (Viirtual Stereo Effect)
  The 3•DSB virtual stereo effect widens the range of sound from the 4-channel speakers when you listen to an AM or FM monaural broadcast.
  The 3•DSB employs Spatializer® ICs of Desper Products, Inc.

Loudness

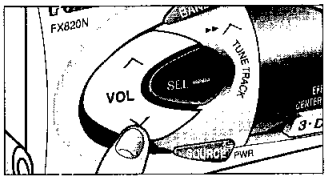
This enhances bass and treble tones and is effective for medium or lower volume.



3•DSB and Loudness Combination

Press **[3•D]** to change the combination of the 3•DSB and loudness as follows.

3•DSB OFF LOUD OFF → 3•DSB ON LOUD OFF → 3•DSB OFF LOUD ON

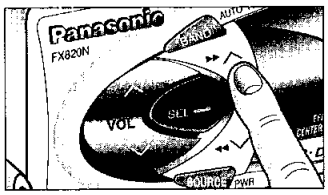


3•DSB Effect Level

① Press and hold **[3•D]** until "EFFECT" appears on the display when 3•DSB is on, and 3•DSB effect level can be adjusted (except for Virtual Stereo Effect).

② Press **[∧VOL]** or **[∨VOL]** to select one of the 10 volume levels (0 - 9). (**Default:** level 6)

0 to 9



3•DSB Center Speaker Volume (Only for CQ-FX820N) [The center speaker (EAB-CF2) is optional.]

① Press and hold **[3•D]** until "EFFECT" appears on the display when 3•DSB is on (except for Virtual Stereo Effect).

② Press **[∧TUNE]** or **[∨TUNE]**. "CENTER SP" appears on the display.

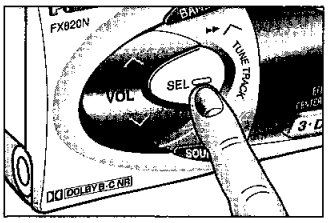
0 to 7

③ Press **[∧VOL]** or **[∨VOL]** to select one of 8 levels (0 to 7) for the center speaker volume. (**Default:** level 4)

Notes:

- The spread of sound produced by the conventional 3•DSB can be further increased by using the center speaker.
- The center speaker sounds only when the 3•DSB is turned on (except for Virtual Stereo Effect).

Power and Sound Controls (continued)



Audio Mode

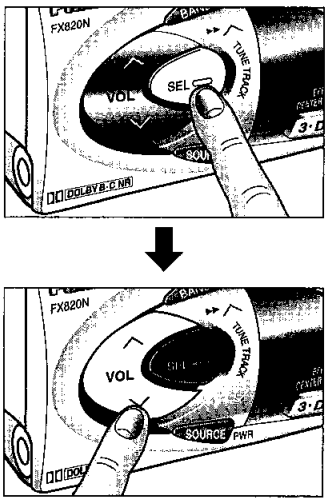
Press **[SEL]** to change the audio mode setting as follows.

Regular Mode → VOL (Volume) → BAS (Bass) → TRE (Treble) → BAL (Balance) → FAD (Fader) → SUBW (Sub-Woofer) → VOL

Note: In the audio mode (BAS/TRE/BAL/FAD/SUBW), the display will be back to regular operation mode with no operation for more than 5 seconds (2 seconds in the VOL mode).

Bass and Treble

Press **[SEL]** to change to the bass (or treble) mode. Press **[∧VOL]** or **[∨VOL]** to increase or decrease the bass (or treble) level by 3 dB step.



BAS+ 3dB (−12 to +12)

TRE+ 3dB (−12 to +12)

Balance

Press **[SEL]** to change to the balance mode. Press **[∧VOL]** or **[∨VOL]** to shift the sound volume to the right or left speakers.

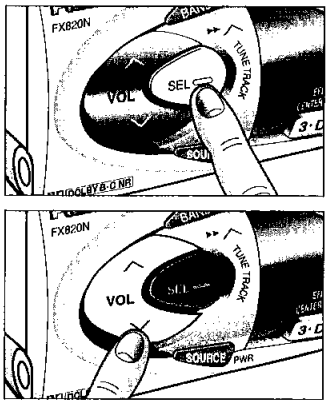
BAL L 2 (1 to 15) | BAL CNT (Balance Center) | BAL R 2 (1 to 15)

Fader

Press **[SEL]** to change to the fader mode. Press **[∧VOL]** or **[∨VOL]** to shift the sound volume to the front or rear speakers.

FAD F 3 (1 to 15) | FAD CNT (Fader Center) | FAD R 3 (1 to 15)

Sub-Woofer

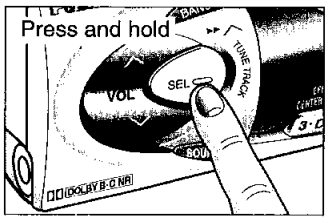


Sub-Woofer Volume

Press **[SEL]** to change to the Sub-Woofer volume mode. Press **[/\VOL]** or **[\/VOL]** to increase or decrease the Sub-Woofer volume.

Sub-Woofer
Volume Level: MUTE (0) to 8 (**Default:** level 4)

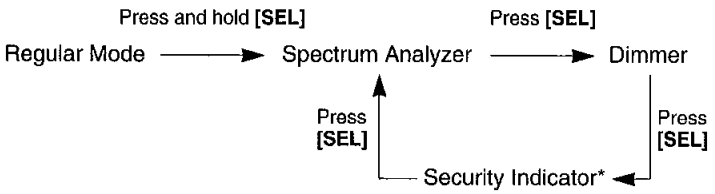
Display Controls



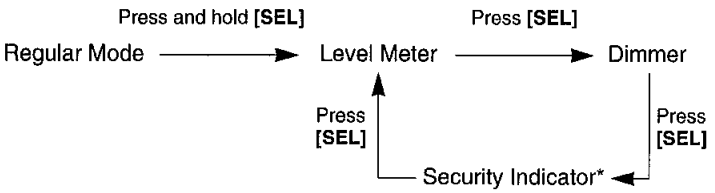
Change to the Display Control Mode

① Press and hold **[SEL]** for more than 2 seconds to change to the display control mode.
② Press **[SEL]** to change the display control mode as follows.

For CQ-FX820N



For CQ-FX720N



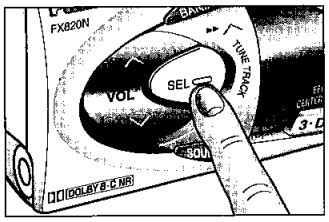
* See page 43 about the Security Indicator.

Note: In the display control mode, the display will be back to the previous mode with no operation for more than 5 seconds.

Power and Sound Controls (continued)

Display Controls (continued)

<Only for CQ-FX820N>



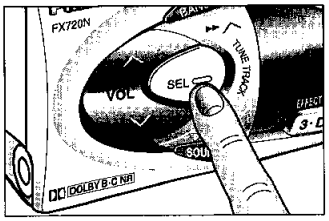
Spectrum Analyzer Display Switching (Only for CQ-FX820N)

Press **[SEL]** during the display control mode to change to the spectrum analyzer mode. Press **[∧TUNE]** to change the spectrum analyzer setting as follows. Select your desired pattern.

Pattern 1 → Pattern 2 → Pattern 3
↑ ↓
Pattern Off ← Pattern 5 ← Pattern 4

(**[∨TUNE]** : opposite direction)

<Only for CQ-FX720N>

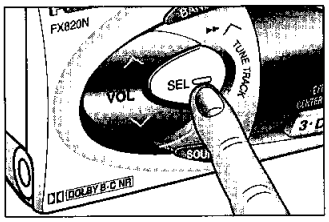


Level Meter (Only for CQ-FX720N)

Press **[SEL]** during the display control mode to change to the level meter mode. Press **[∧TUNE]** to change the level meter setting as follows. Select your desired pattern.

Pattern 1 → Pattern 2 → Pattern 3
↑ ↓
Pattern Off ← Pattern 5 ← Pattern 4

(**[∨TUNE]** : opposite direction)



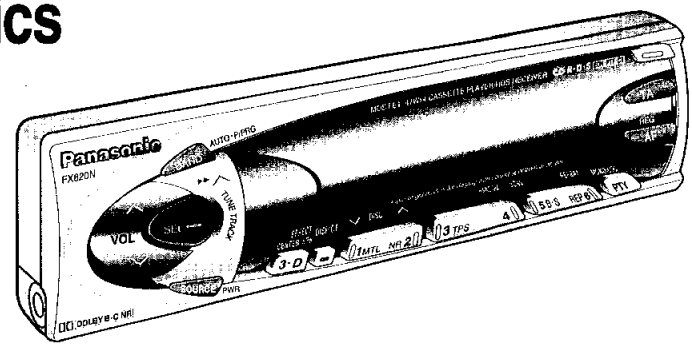
Dimmer

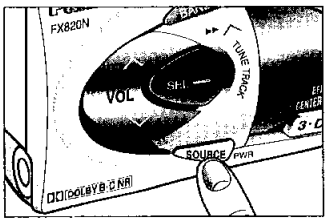
Press **[SEL]** during the display control mode to change to the dimmer change mode. Press **[∨TUNE]** to change the dimmer level setting as follows. (**Default:** Dimmer 3)

Dimmer 3 (Brighter) → Dimmer 2 (Center) → Dimmer 1 (Darker)
↑ ↓

(**[∧TUNE]** : opposite direction)

Radio Basics



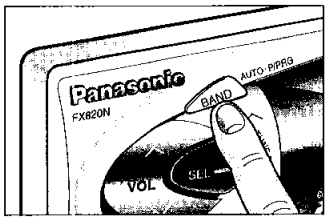


Tuner Mode

Press **[SOURCE]** to change the source as follows.

Radio → Cassette Tape Player (When a tape is inserted) → CD Changer Control (When a CD changer is connected) → AUX*

* See page 39 about AUX.

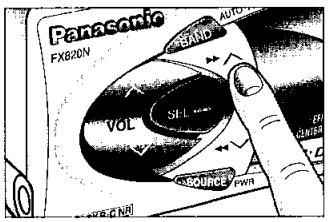


Band

Press **[BAND]** to change the band setting as follows.

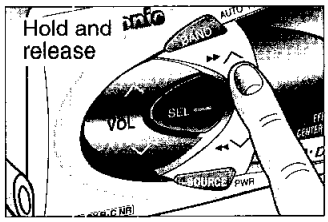
FM1 → FM2 → FM3 → AM(LW/MW)

The stereo indicator lights during reception of an FM stereo broadcast.



Manual Tuning

Press **[∧TUNE]** or **[∨TUNE]** to tune in a higher or lower frequency.



Seek Tuning

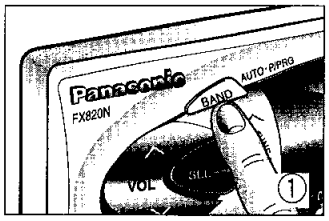
Press and hold **[∧TUNE]** or **[∨TUNE]** for more than 0.5 seconds, then release it. Seeking will automatically stop when a signal of the next broadcast station is received.

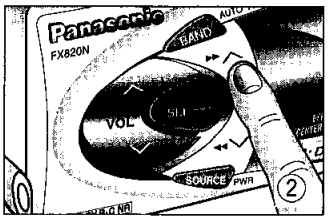
Radio Basics (continued)

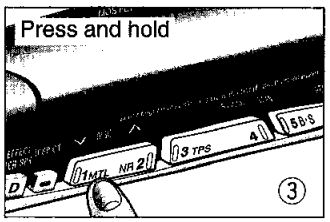
Station Preset

FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories.

Caution: To ensure safety, never attempt to preset stations while you are driving.

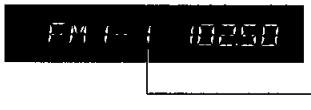




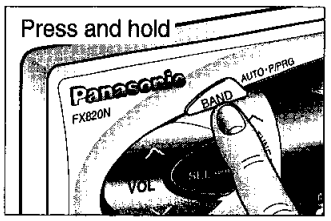


Manual Station Preset

① Press **[BAND]** to select a desired band.
② Use manual or seek tuning to find a station which is to be preset in the memory.
③ Press and hold one of the preset buttons **[1]** to **[6]** for more than 2 seconds until the display blinks once.



Note: You can change the memory presetting by repeating the above procedure.

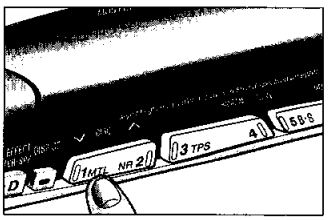


Auto Station Preset

Select the band, press and hold **[BAND]**(AUTO•P) for more than 2 seconds (Auto Preset Memory).

- The 6 strongest available stations will be automatically saved in the memory on preset buttons **[1]** to **[6]**.
- Once set, the preset stations are sequentially scanned for 5 seconds each.

Note: The stations manually preset on the selected band will be deleted.

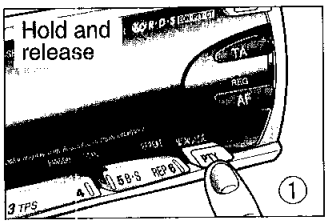


Tuning in a Preset Station

Press the corresponding preset buttons **[1]** to **[6]** to tune in a preset station.

MONO/LOCAL Selection

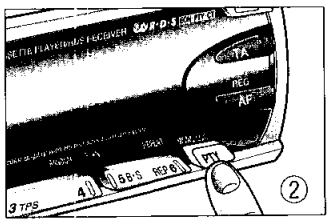
- At the MONO setting, noise is significantly decreased when weak signals are received from an FM broadcast station.
- At the LOCAL setting, only strong signals of stations are searched in seek tuning, while at the LOCAL OFF setting, relatively weak signals are also searched.



① FM Broadcasts

Press and hold **[PTY]**(MONO/LOC) to change the mode until the desired mode is reached, then release it.

MONO OFF LOCAL OFF → MONO ON LOCAL OFF → MONO ON LOCAL ON → MONO OFF LOCAL ON



② AM Broadcasts

Press **[PTY]**(MONO/LOC) to switch the Local mode as follows.

LOCAL OFF ⟷ LOCAL ON

RDS (Radio Data System) Reception

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)
When receiving condition becomes poor, an RDS station with the same program will be automatically selected.

EON (Enhanced Other Networks)
When EON data is received, the EON indicator lights and the TA and AF functions are expanded.
TA: Traffic information from not only the station now tuned in to but also other network stations can be received.
AF: The frequency list of the RDS stations preset by received EON data is updated.

PS (Program Service Name)
When an RDS station is received, the name of that station automatically displays instead of the frequency. When [▬](DISP/CT) is pressed during PS display, the frequency appears on the display for 3 seconds, then PS display returns.

PI (Program Identification)
If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

PTY (Program Type)
Program type identification signal
Example : News, rock, classical music, etc.

TA (Traffic Announcement)
When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a tape, CD changer or AUX source until it ends, then you will listen again to whatever you have been listening to.

Best Station Research
If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

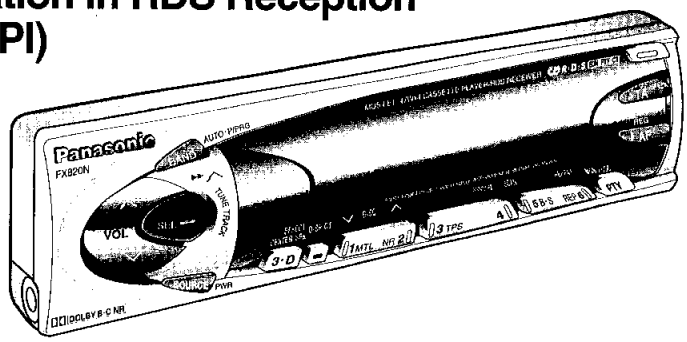
REG (Region)
The AF, Best Station Research, PI seek functions will be as follows:
REG ON : The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.
REG OFF : The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

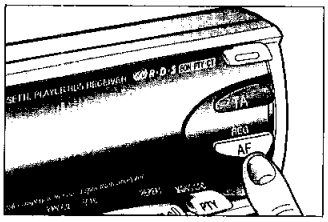
What Provides EON Capabilities

EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

Note: When you're in **AF ON** mode, auto preset memory only works for RDS station. When in **TA ON** mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and change to TA off in advance.

A. Basic Operation in RDS Reception (PS, AF, CT, PI)



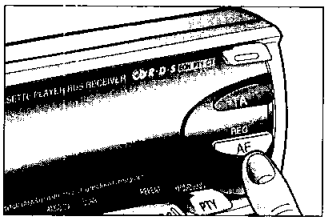


RDS Reception

Press **[AF]** when receiving a station in the FM1, FM2 or FM3 band.

- The AF ON/OFF can be set in each FM band.

- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
- Select AF OFF if the AF network of an RDS station is not necessary.



Changing AF Mode

Press **[AF]** to change AF ON and activate best station research at the same time. (3 seconds maximum)

..... AF 1 mode (Default)

..... AF 2 mode

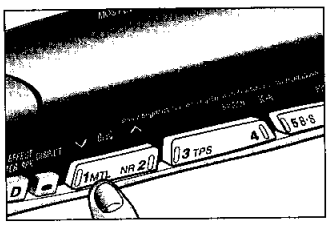
..... AF OFF mode

Notes:

1. Default mode is AF1.
2. AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF does not frequently operate even when sensitivity is temporarily lowered between skyscrapers, for example.
3. AF2 is for suburban areas with a higher level of sensitivity than AF1.

RDS (Radio Data System) Reception (continued)

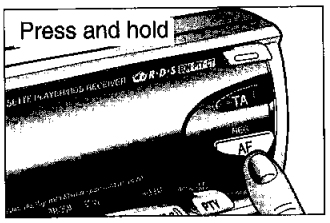
For Seek Tuning, RDS Station Preset, Tuning in a RDS Preset Station, and Auto RDS Station Preset, please refer to Radio Basics (pages 23 to 25).



RDS Seek Tuning (PI Seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.

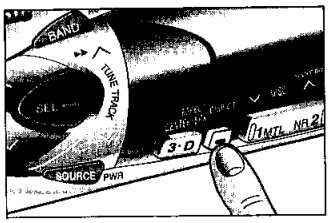
PI seek: If Best Station Research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program.



Region (REG) Switching

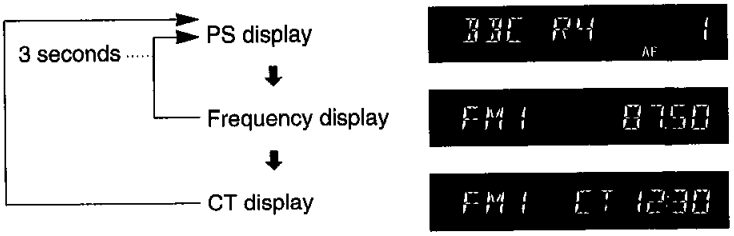
Press and hold **[AF]**(REG) for more than 2 seconds in AF mode to alternately select between REG ON and REG OFF.

Note: If you wish to stay with the same program, keep REG ON. In REG OFF mode, there is a higher possibility of returning to an AF station in better receiving condition.
The relationship of the PI seek function with REG ON and REG OFF is as described above.



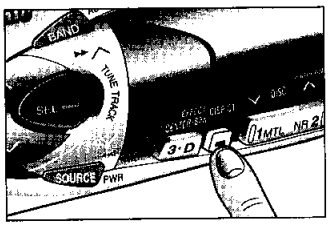
Changing Display

Press **[▬]**(DISP/CT) to change the display as follows.
(Frequency display continues for only 3 seconds, returning to PS display after that.)



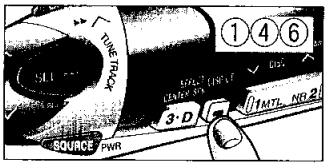
Clock Time (CT) System

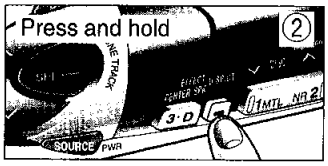
The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" appears on the display in areas where no CT service is available.

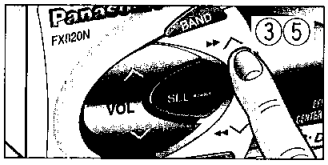


Clock Display

Press **[▬]**(DISP/CT) to indicate the clock display.







Initial Time Setting

Press **[BAND]** to change to AM mode.

① Press **[▬]**(DISP/CT), " NO CT" appears on the display.

② Press and hold **[▬]**(DISP/CT) again for more than 2 seconds, "hours" blinks and the time setting mode is activated.

③ To set hours, press **[∧TUNE]** or **[∨TUNE]**.
Hold **[∧TUNE]** or **[∨TUNE]** to change numbers rapidly.

④ Press **[▬]**(DISP/CT) again for minutes setting.

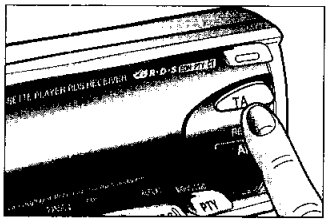
⑤ To set minutes, press **[∧TUNE]** or **[∨TUNE]**.

⑥ After setting the time, press **[▬]**(DISP/CT).

Notes:

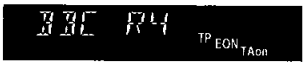
- If CT display is kept on, it remains on even if **[SOURCE]**(PWR) and accessory are turned off and back on again.
- In other modes, press **[▬]**(DISP/CT) to get RDS CT-service.

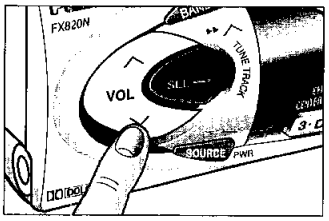
B. TP Reception



Select Traffic Announcement (TA on) Mode

Press **[TA]** to switch on and keep it there when you wish to listen to traffic information. Press **[TA]** again to switch off.





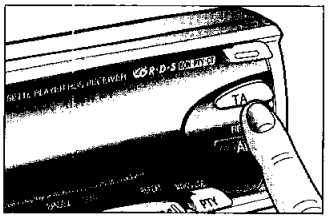
Volume Setting (Only for TA on Mode)

Adjust the volume as desired by pressing **[∧VOL]** or **[∨VOL]** while receiving Traffic Announcement. (TA)

After volume for Traffic Announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.

Normal volume can be changed up to 5 levels upward or downward.

If the volume level is over 40 or less than 0, any further change will not be made.

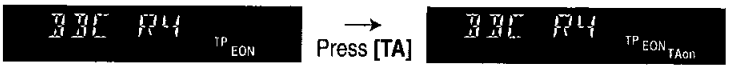


When receiving a station other than TP station (including EON stations)

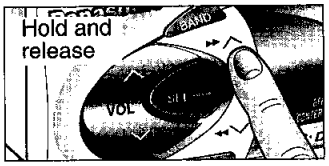
A traffic information station is automatically searched for and the radio automatically stops the next available TP station.

EON capabilities:

EON lets the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.

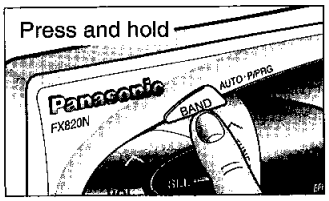


RDS (Radio Data System) Reception (continued)



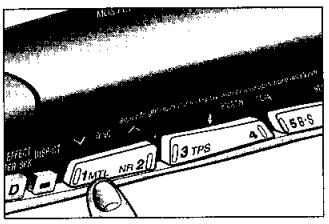
TP Seek Tuning

Press and hold [∧**TUNE**] or [∨**TUNE**] for more than 0.5 seconds, then release. The seeking automatically stops at the next available TP station.



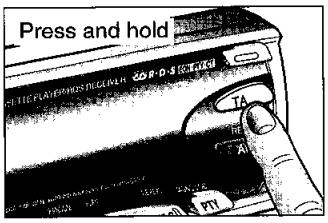
Auto TP Station Preset

Press and hold **[BAND]**(AUTO•P) for more than 2 seconds. The six strongest available TP stations are automatically saved in the memory on the preset button **[1]** to **[6]**.
Once saved, the preset stations are sequentially scanned for 5 seconds each.



Tuning in a TP Station Preset

Press any of the preset buttons **[1]** to **[6]** that you want to listen to. Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

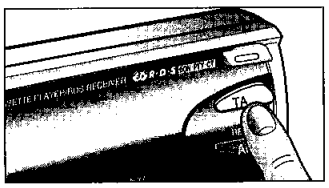
Press and hold **[TA]** for more than 2 seconds to light "TA on".
Then Traffic Announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.

Muting TA on Canceling (Muting TA on → TA on)

Press **[TA]** again.
Or press **[∧VOL]** to increase the volume level.

TP Auto Search

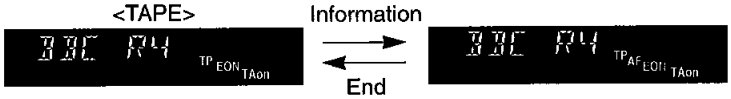
If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.



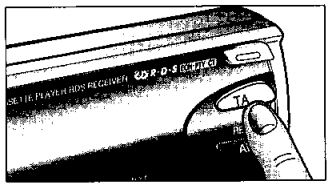
Tape/CD changer/AUX TA on

Press **[TA]** during tape, CD changer, AUX mode.
When TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to begin.

<TAPE> Information



End

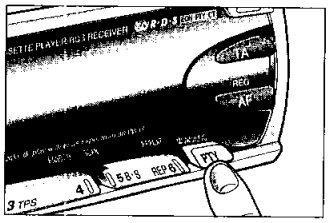


Switching to TA off Mode

Select either one of the following steps.
- Press **[TA]** when TA is on.
- Press and hold **[TA]** for more than 2 seconds when Muting TA is on.
- Press **[TA]** when tape/CD changer/AUX TA is on.

C. PTY Reception

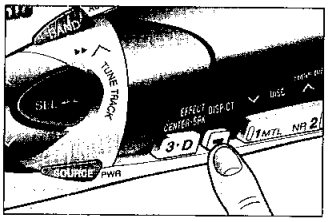
(There are some areas where PTY service may not be available.)



Switching to PTY Mode

Press **[PTY]** to select PTY display mode, and the PTY of the broadcast now received appears on the display.

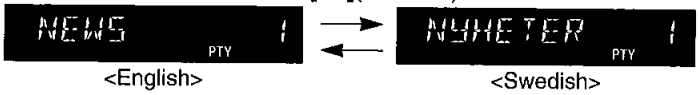
"NO PTY" appears on the display if there is no corresponding program type.



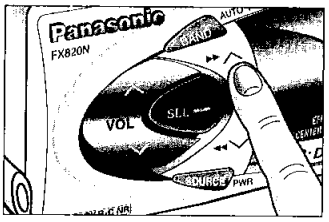
Changing PTY Display Language

The display language can be changed to swedish as required.
Press **[▬]**(DISP/CT) in PTY mode to alternate the language between English and Swedish.

Press **[▬]**(DISP/CT)



<English> <Swedish>



Program Type Selection

Press **[∧TUNE]** or **[∨TUNE]** to select the program type as follows.

SPEECH – MUSIC – NEWS – AFFAIRS – INFO – SPORT – EDUCATE – DRAMA
ROCK M – POP M – VARIED – SCIENCE – CULTURES
M.O.R.M – LIGHT M – CLASSICS – OTHER M – WEATHER – FINANCE
LEISURE – TRAVEL – PHONE IN – RELIGION – SOCIAL A – CHILDREN
JAZZ – COUNTRY – NATIONAL – OLDIES – FOLK M – DOCUMENT

When a desired selection has been made, press **[BAND]**. Then automatic seek will start to tune in to the station broadcasting the selected program type.

Note: Seek tuning does not operate as long as "NO PTY" appears on the display.

RDS (Radio Data System) Reception (continued)

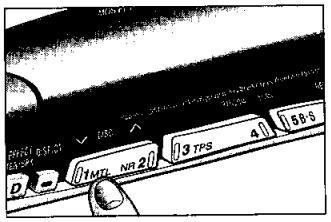
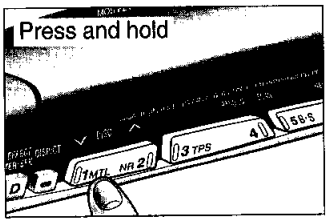


Table of PTY Code and Program Type

Press any of the preset buttons **[1]** to **[6]** according to your preference. Those buttons already have the program types as follows. (Default setting)

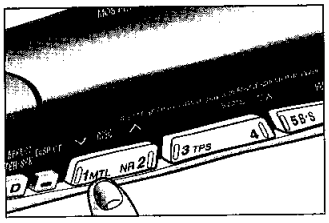
<Preset PTY>

Preset No.	1	2	3	4	5	6
Program Type	News	Speech	Sport	Pop. Music	Classics	Music
Display	NEWS 1	SPEECH 2	SPORT 3	POP M 4	CLASSICS 5	MUSIC 6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP.M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



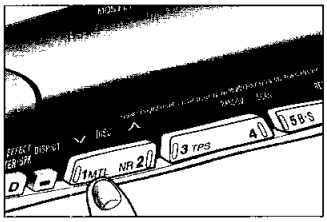
Program Type Preset

Press and hold one of the buttons **[1]** to **[6]** for more than 2 seconds to preset the desired program type selection in the button.



Tuning in a PTY Preset Station

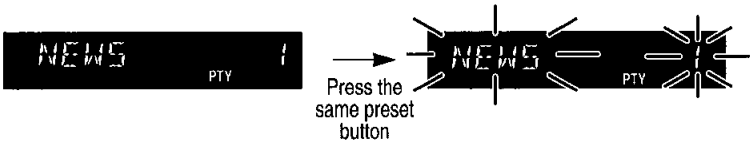
Press any of the preset buttons **[1]** to **[6]** that you want to listen to.



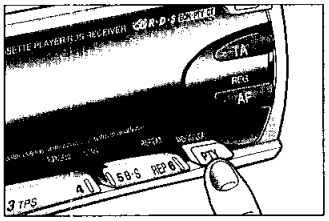
Searching for PTY

① Select the desired station from preset in the preset number buttons **[1]** to **[6]**. Then, the preset PTY and that preset number appear on the display for 5 seconds.

② While the desired type from 6 presets appears on the display, take either of the following two steps.
a) Press the same preset button again.
b) Press **[BAND]**.
If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.



Press the same button again to cancel.



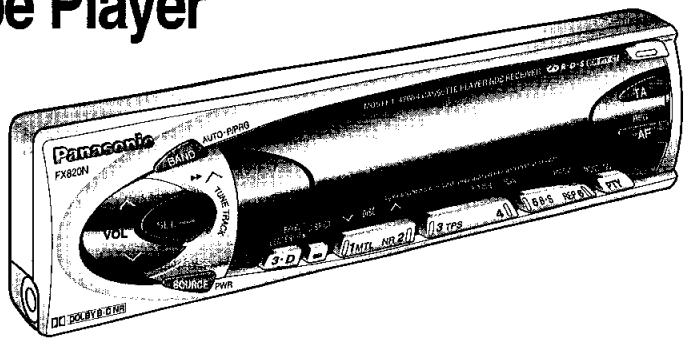
Canceling of PTY Mode

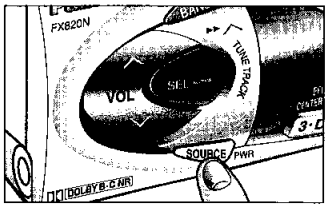
Press **[PTY]** to cancel.
The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)
When an emergency announcement is broadcast, the unit is automatically switched to receiving that broadcast. If this happens in a mode other than radio mode (Tape mode, CD Changer mode, AUX mode) or in Muting in TA mode, "ALARM" blinks on the display.

Cassette Tape Player Basics



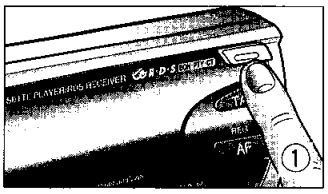


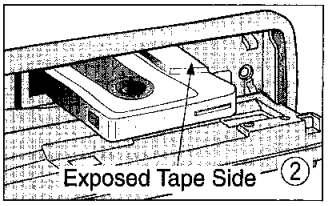
Mode Selection

Press **[SOURCE]** to change the source as follows.

Radio → Cassette Tape Player → CD Changer Control → AUX*
(When a tape is inserted) (When a CD changer is connected)

* See page 39 about AUX.





Tape Insert

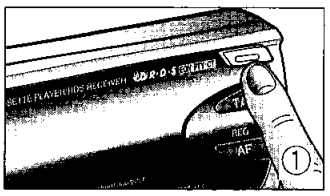
① Press **[OPEN]** to open the front panel.
② Insert a cassette with the exposed tape side facing to the right. Close the front panel manually. Play will start automatically.

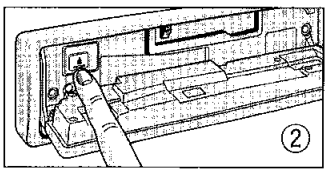
Playing Side Indicator — A TAPE PLAY

Caution: Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.

Notes:

- While a cassette tape is inserted, no sound is heard (MUTE). And the volume is back to the previous level when the front panel is closed completely.
- When a tape is in the deck, tape indicator lights.





Tape Eject

① Press **[OPEN]** to open the front panel.
② Press **[⏏]** to eject the tape. After the tape is removed, close the front panel manually. The previous operation mode will resume.

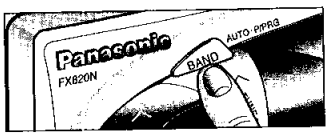
Caution: When ejecting a cassette tape, do not close the front panel until the cassette tape is ejected and removed from the cassette slot completely.

Notes:

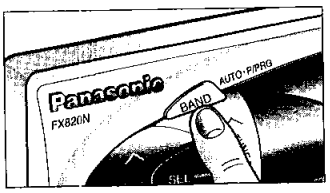
- Always remove the cassette tape from the unit when the cassette tape player is not being used.
- While the cassette tape is ejected, no sound is heard (MUTE). And the volume is back to the previous level when the front panel is closed completely.

Rewind and Fast Forward

Press **[◄◄TRACK]** or **[►►TRACK]** to activate rewind or fast forward of the tape.



Press **[BAND]**(PRG) to resume the tape play.

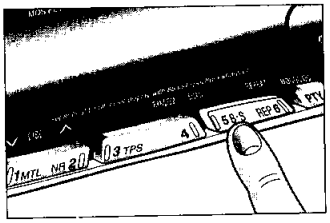


Play Side Change

Press **[BAND]**(PRG) to reverse.

Top Side Playing

Bottom Side Playing

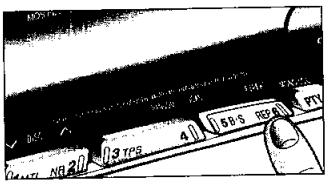


Blank Skip

- Press **[5]**(B•S) to skip unrecorded portions longer than 15 seconds on the tape.
- Press **[5]**(B•S) again to cancel.

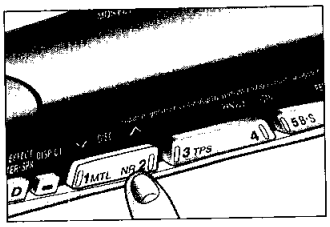
Notes:

- When repeat is on, the blank skip does not work because the repeat has priority over the blank skip.
- The blank skip does not work when an unrecorded portion of a tape is less than 15 seconds.



Repeat Play

- Press **[6]**(REP) to repeat the current program.
- Press **[6]**(REP) again to cancel.



Dolby Noise Reduction

(Only for CQ-FX820N)

- Press **[2]**(NR) to set the Dolby B NR mode.
- Press **[2]**(NR) again to set the Dolby C NR mode.
- Press **[2]**(NR) again to cancel.

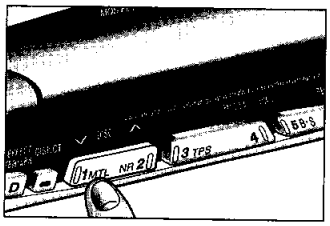
(Only for CQ-FX720N)

- Press **[2]**(NR) once to set the Dolby B NR mode.
- Press **[2]**(NR) again to cancel.

Notes:

- Set the Dolby B NR mode when playing back a tape recorded with Dolby B Noise Reduction.
- Set the Dolby C NR mode when playing back a tape recorded with Dolby C Noise Reduction.

Cassette Tape Player Basics (continued)

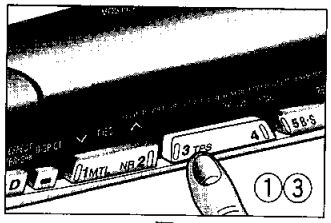


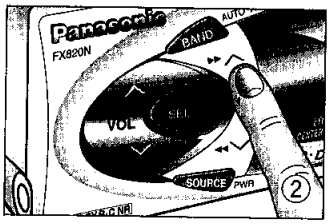
Metal Tape Mode

- Press **[1]**(MTL) when playing metal or chromium dioxide (CrO_2) tapes.

- Press **[1]**(MTL) again to cancel.

Note: Playing non-metal tapes in MTL mode causes high frequency imbalance, which affects tone quality.

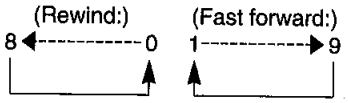




TPS Operation (Tape Program Search)

① Press **[3]**(TPS) to activate the Tape Program Search mode.

② To select a desired program, press **[∧TUNE]** or **[∨TUNE]** corresponding times to go forward (up to 9) or backward (up to 8).

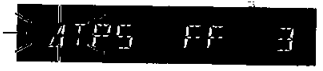


Ex.1. To select the current program again, press **[3]**(TPS) and **[∨TUNE]**.

Ex.2. To select the last program, press **[3]**(TPS) and **[∨TUNE]** twice.

Ex.3. To select the next program, press **[3]**(TPS) and **[∧TUNE]**.

Ex.4. To select the next 3rd program, press **[3]**(TPS) and **[∧TUNE]** three times.



③ Press **[3]**(TPS) again to cancel.

Notes:

The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.

- There is an interval less than 3 seconds or having a high level of noise or hum between programs.
- There is particularly low-level passage during the program.

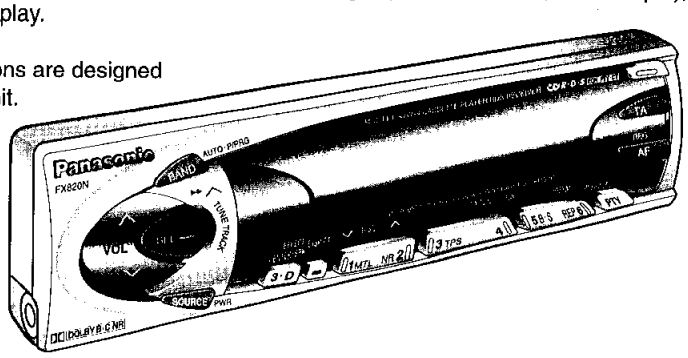
Notes:

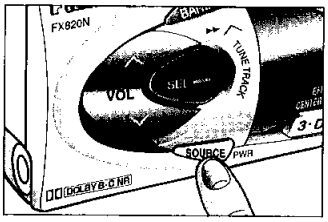
- To maintain your cassette player in top condition, avoid using tapes that are longer than 90 minutes (C-90).
- If you insert into the unit a cassette with a loose tape caused by forcing it into cassette with a finger or the like, the cassette may not be properly reproduced. In such a case, eject the cassette, make the tape tight, then insert it back into the deck.

CD Changer Basics

When the unit is connected with a CD text recognizable CD changer (CX-DP9061EN, for example), CD text can appear on the display.

Note: The CD changer functions are designed for an optional CD changer unit.



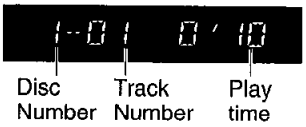


Starting the CD Changer

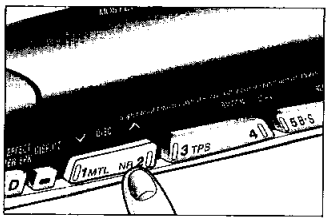
Once the CD changer has been connected, press **[SOURCE]** to change to the CD changer mode as follows. When a disc magazine is inserted, CD play starts automatically.

Radio → Cassette Tape Player (When a tape is inserted) → CD Changer Control (When a CD changer is connected) → AUX*

* See page 39 about AUX.



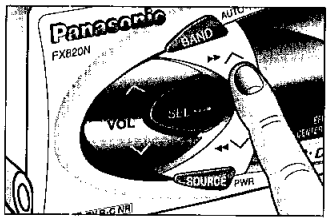
Disc Number | Track Number | Play time



Disc Selection

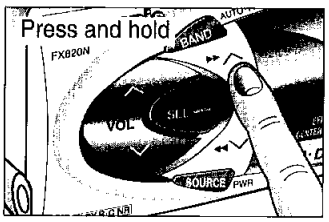
Press **[1]**(∨DISC) or **[2]**(∧DISC) to select a disc in descending or ascending order.
Then, the selected disc will start to play from the first track.

Note: The number of discs you can load the CD changer with is specific to each model.



Track Selection

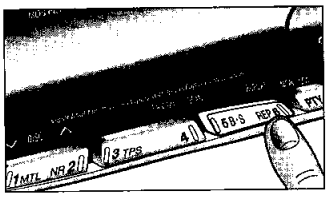
- Press **[▶▶TRACK]** to advance to the next track.
- Press **[◀◀TRACK]** to start play from the beginning of the track now playing.
- Press **[▶▶TRACK]** or **[◀◀TRACK]** repeatedly to skip the desired number of tracks.



Track Search

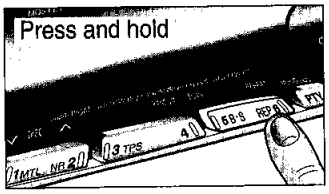
- Press and hold **[▶▶TRACK]** or **[◀◀TRACK]** for more than 0.5 seconds to activate fast forward or reverse.
- Release **[▶▶TRACK]** or **[◀◀TRACK]** to resume regular CD changer play from the released position.

CD Changer Basics (continued)



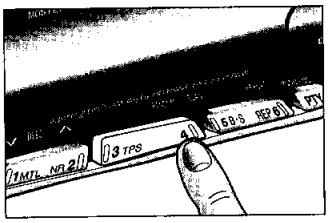
Track Repeat

- Press [6](REPEAT) to repeat the current selection.
- Press [6](REPEAT) again to cancel.



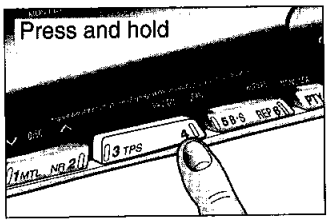
Disc Repeat

- Press and hold [6](REPEAT) for more than 2 seconds to repeat the current disc selection.
- Press and hold [6](REPEAT) for more than 2 seconds again to cancel.



Track Random

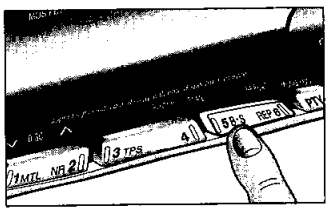
- Press [4](RANDOM). All the available tracks on all discs in the magazine will be played in a random sequence.
- Press [4](RANDOM) again to cancel.



Disc Random

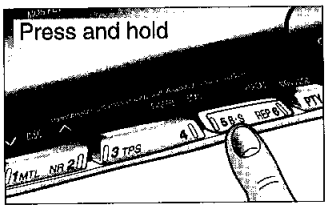
- Press and hold [4](RANDOM) for more than 2 seconds. All the available tracks on the current disc will be played in a random sequence.
- Press and hold [4](RANDOM) for more than 2 seconds again to cancel.

Note: When [6](REPEAT) is pressed in the random mode, random play stops and repeat play starts.



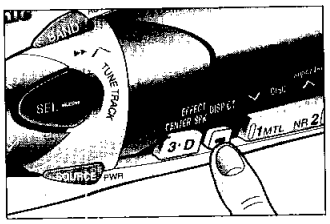
Track Scan

- Press [5](SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.
- Press [5](SCAN) again to cancel.



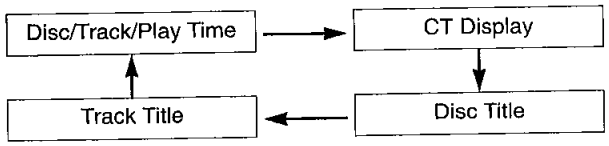
Disc Scan

- Press and hold [5](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.
- Press and hold [5](SCAN) for more than 2 seconds again to cancel.

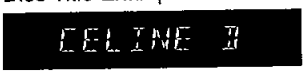


Changing the Display

Press [▬](DISP/CT) to change the display as follows.



Disc Title Example



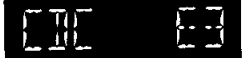
Track Title Example

When [▬](DISP/CT) is pressed for more than 2 seconds while the Track Title or Disc Title appears on the display, the Title display scroll can be switched on or off. (**Default:** the Title display scroll on)

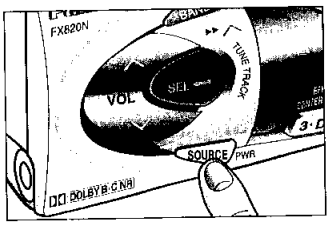
Notes:

- Track title or disc title appears on the display only when the unit is connected to a CD changer that can recognize CD text (CX-DP9061EN, for example).
- "NO TITLE" appears on the display if a disc which does not support the text display has been loaded.

Error Display Messages

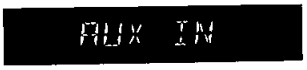
	Appears on the display when the compact disc is dirty or inverted. Selects the next available compact disc.
	Appears on the display when compact disc is scratched. Selects the next available compact disc.
	Appears on the display when the unit stops operating for some reason. Press the reset switch on the CD changer.
	Appears on the display when there is no disc in the magazine.

Auxiliary



This mode is for listening to the sound of an auxiliary unit.
Press **[SOURCE]** to change the source as follows.

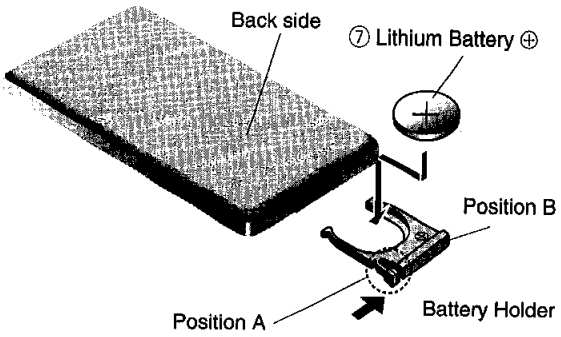
Radio → Cassette Tape Player (When a tape is inserted) → CD Changer Control (When a CD changer is connected) → AUX



Remote Control Basics

Battery Installation

1. Remove the battery holder.
   Take hold of the holder at position B and pull it out by pushing position A in the direction shown by the arrow.
2. Install the battery on the battery holder.
   Set a new battery properly with its (+) side facing up as shown in the figure.
3. Insert the battery holder.
   Push in the battery holder back into its original position.



Battery Notes

Remove and dispose of an old battery immediately.
Battery Information:

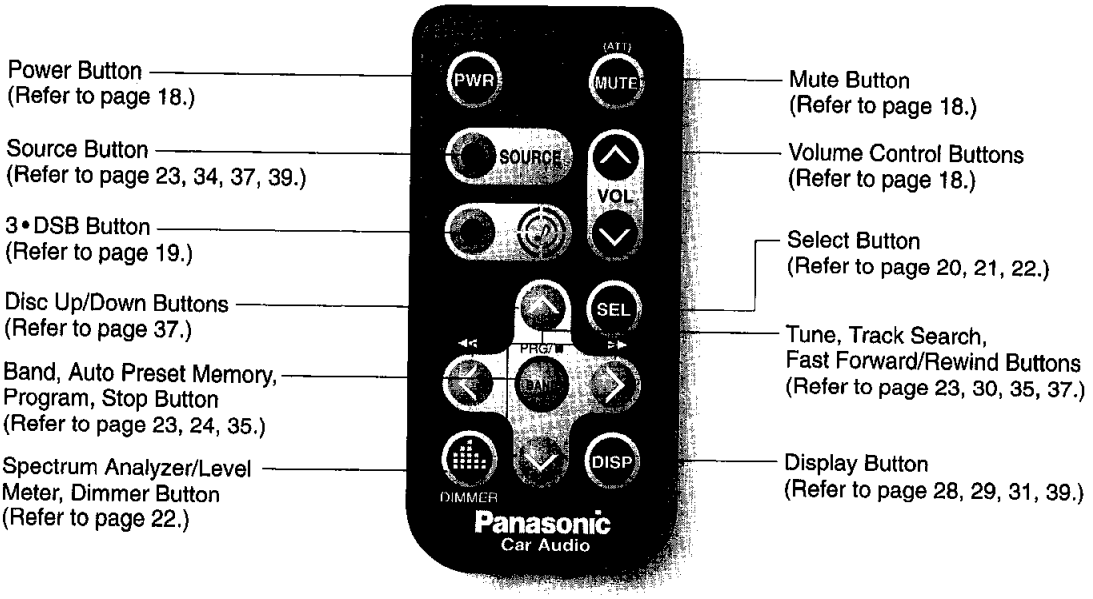
- Battery type: Panasonic lithium battery (CR2025)
- Battery Life: Approximately 6 months under normal use (at room temperature)

Caution: Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire. Battery leakage may damage the unit.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries away from children to avoid the risk of accidents.
- Be careful to the disposal rules when you dispose of batteries.

Main Controls

For details of each function, refer to the pages in parentheses. Some of the functions may not be usable even if they are shown.



Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

① Switch off the power.
② Press **[OPEN]**. The face plate will be opened.

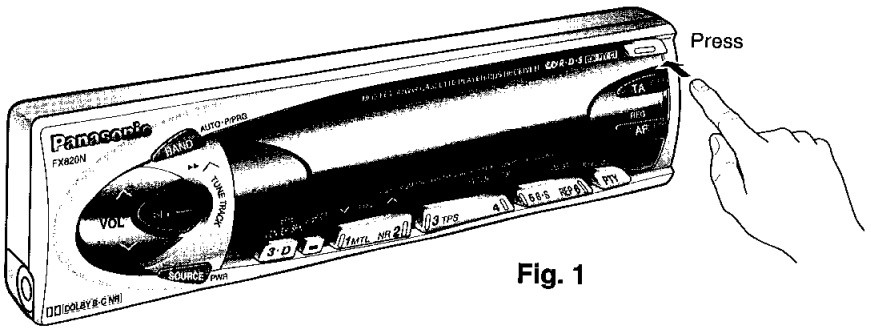


Fig. 1

③ Push the face plate to either the right or left, then pull it out toward you.

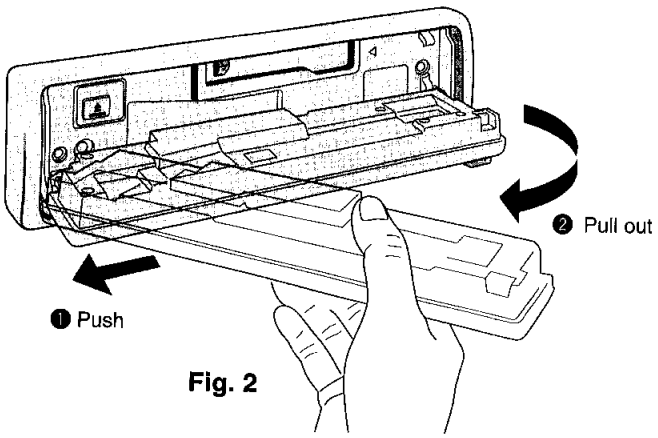


Fig. 2

④ As shown in Fig. 3, gently push the lower side of the case and open its cover. Keep the face plate in the case. Then, you can bring the plate safely.

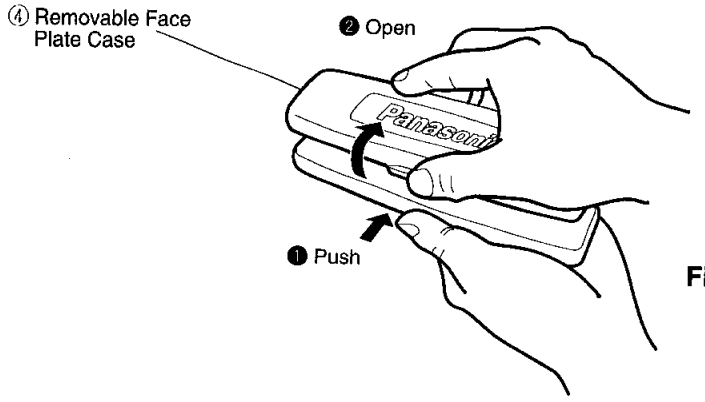


Fig. 3

Anti-Theft System (continued)

To Install the Removable Face Plate

① Fit either the edge of the right or left hole in the face plate over the main unit's pins.
② Fit it over on the other side while pushing it.

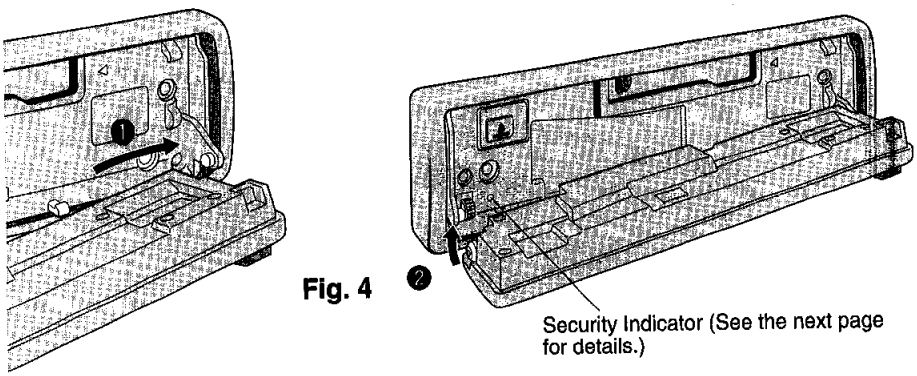


Fig. 4

③ After fitting the face plate holes, try moving the face plate up and down a few times to make sure that it has been fitted securely. Close the front panel and press the right side of the face plate until a "click" is heard.

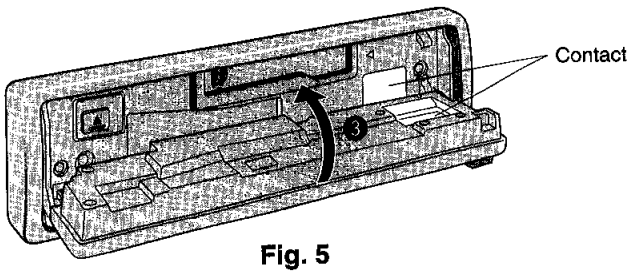


Fig. 5

Cautions:
1. Before removing the face plate, make sure the power is off.
2. This face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the face plate while driving your car.
4. Do not place the face plate on the dashboard or in any area where the temperature rises to high levels.
5. Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them off with clean and dry cloth.
7. Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. (See Fig. 4 on the previous page.)

Activate Security Indicator

1. ① Press and hold **[SEL]** for more than 2 seconds to change to the display control mode when the power is on.
   ② Press **[SEL]** during the display control mode to change to the security indicator mode. (See page 21.)
   ③ Press **[/\TUNE]** or **[\/TUNE]** to turn the security indicator on or off. (LED On or OFF)
   (Default: The security indicator is on.)

Note: "LED On" appears on the display when the security indicator is on.

2. To check whether the unit is set in the LED On mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Panel Removal Alarm
	Blinks	ON
	(Press **[/\TUNE]** or **[\/TUNE]**.)	
	OFF	OFF

Note: In the display control mode, the display will be back to the previous mode with no operation for more than 5 seconds.

Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is activated when the security indicator is on.

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Caution: For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

In-dash Installation

Installation Opening

In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig. 6. The car's dashboard should have a thickness of 4.5 mm - 6 mm in order to make the installation of the unit.

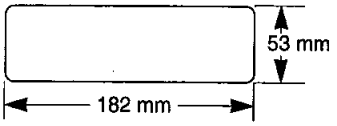


Fig. 6

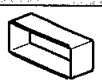
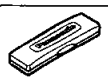
Installation Precautions

This product, if possible, should be installed by a professional installer.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.

1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connections on pages 48 to 49 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead (red) after all other connections are made.
4. Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective product before connecting it to this unit.

Supplied Hardware

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mmø)		1
③	Power Connector		1
④	Removable Face Plate Case		1

No.	Item	Diagram	Q'ty
⑤	Remote Control Unit		1
⑥	Trim Plate		1
⑦	Lithium Battery (CR2025)		1
⑧	ISO Antenna Adaptor		1

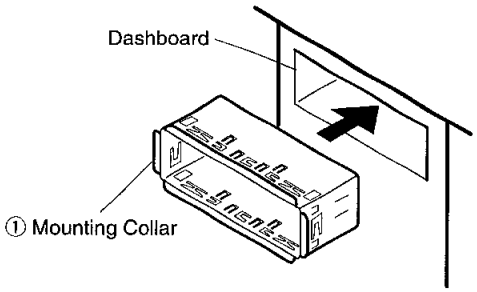
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.
- We strongly recommend you to wear gloves for installation work to protect yourself from injuries.

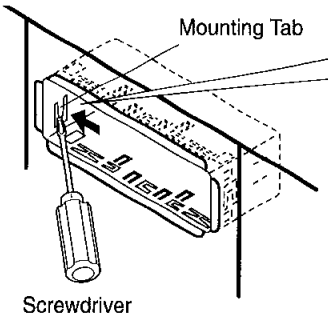
Installation Procedures

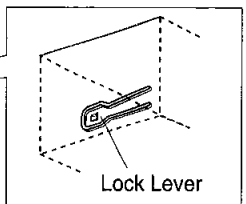
Note: Disconnect the cable from the negative (–) battery terminal.

1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the dashboard, and bend the mounting tabs out with a screwdriver.



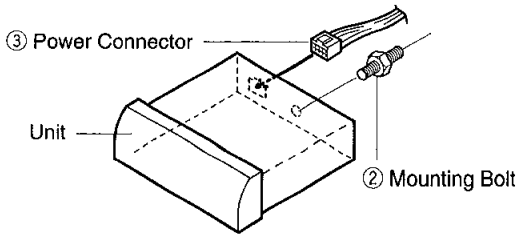


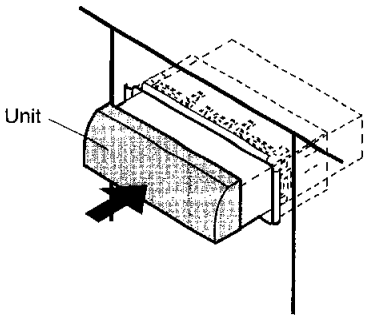


Make sure that the lock lever is flush with the mounting collar (not projecting outward).

2. Secure the rear of the unit.

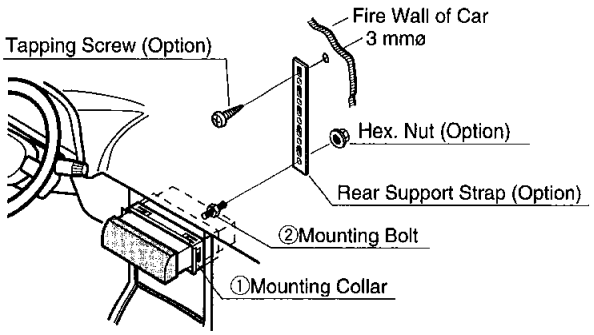
a) Check the electrical connections by referring to this operating instructions.
b) Connect Mounting Bolt ②, using a suitable wrench.
c) Insert Power Connector ③ to the unit.
d) Insert the unit into Mounting Collar ① and push it in until a "click" is heard.





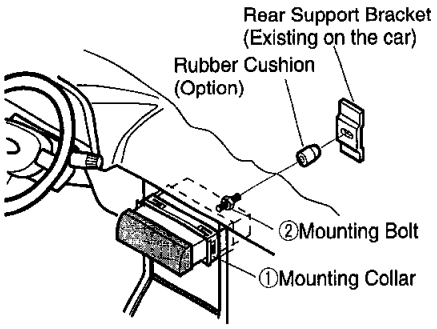
e) Secure the rear of the unit to the car by either of the two recommended methods.

- **Using the Rear Support Strap (Option)**
  Affix one end of the Rear Support Strap to the rear of the unit, and the other end to the fire wall of car, or some other metallic area.

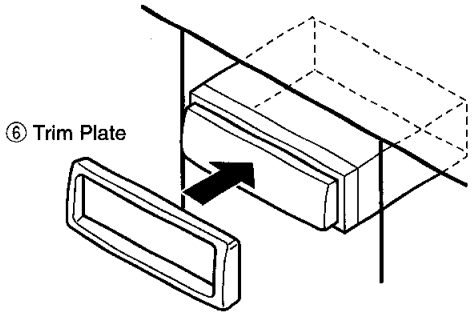


Installation (continued)

- **Using the Rubber Cushion (Option)**
  (If there is an existing Rear Support Bracket on the fire wall of car.)
  Cover Mounting Bolt ② on the rear of the unit with Rubber Cushion, and mount it into the existing Rear Support Bracket.



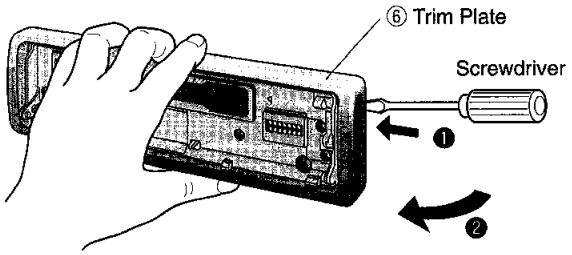
3. Insert Trim Plate ⑥.



4. After installation reconnect the negative (–) battery terminal.

To Remove the Unit

a) Remove the removable face plate. (See page 41.)
b) Remove Trim Plate ⑥ with a screwdriver as shown in the figure.



c) Pull out the unit while pushing the lock lever using screwdriver. (Fig. 7, Fig. 8)
d) Remove the unit pulling with both hands. (Fig. 9)

Fig. 7

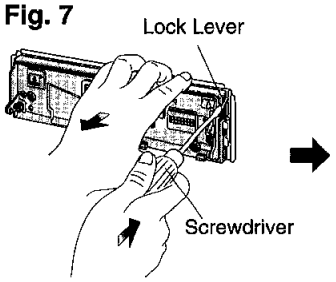


Fig. 8

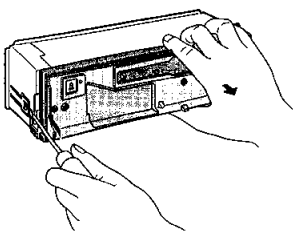
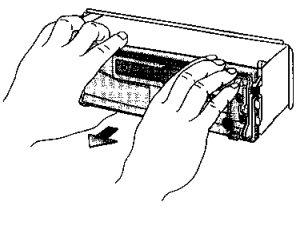


Fig. 9



Mounting the Center Speaker (EAB-CF2) (Option for CQ-FX820N only)

- Attach the two pieces of Velcro Tape (hook side) to the rear of the Center Speaker (Fig. 10).
- Attach the other two pieces of Velcro Tape (loop side) on a flat surface of the dashboard as close as possible to the center (Fig. 11).
- Connect the speaker cord referring to the electrical connection and mount the Center Speaker (Fig. 11).

Fig. 10

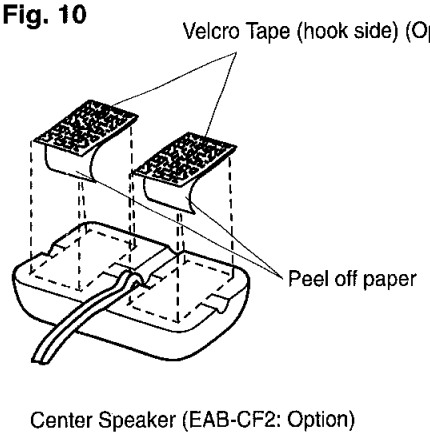
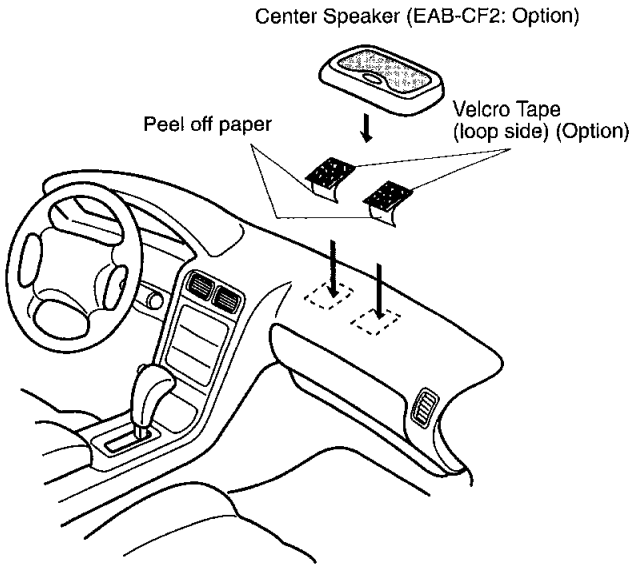


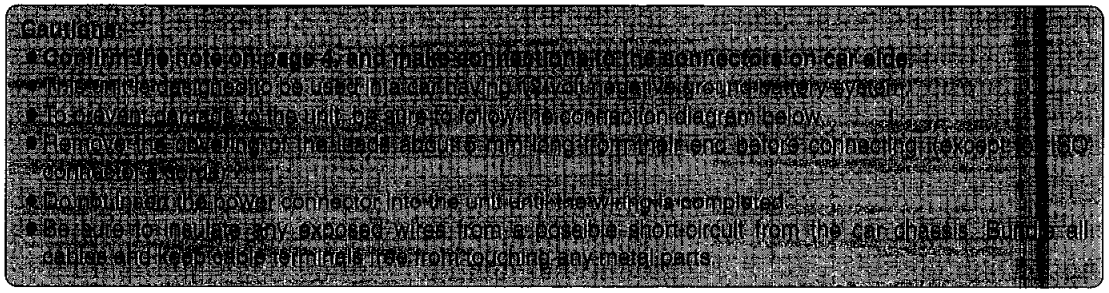
Fig. 11

Mount the center speaker on the dashboard as close to its center as possiible.

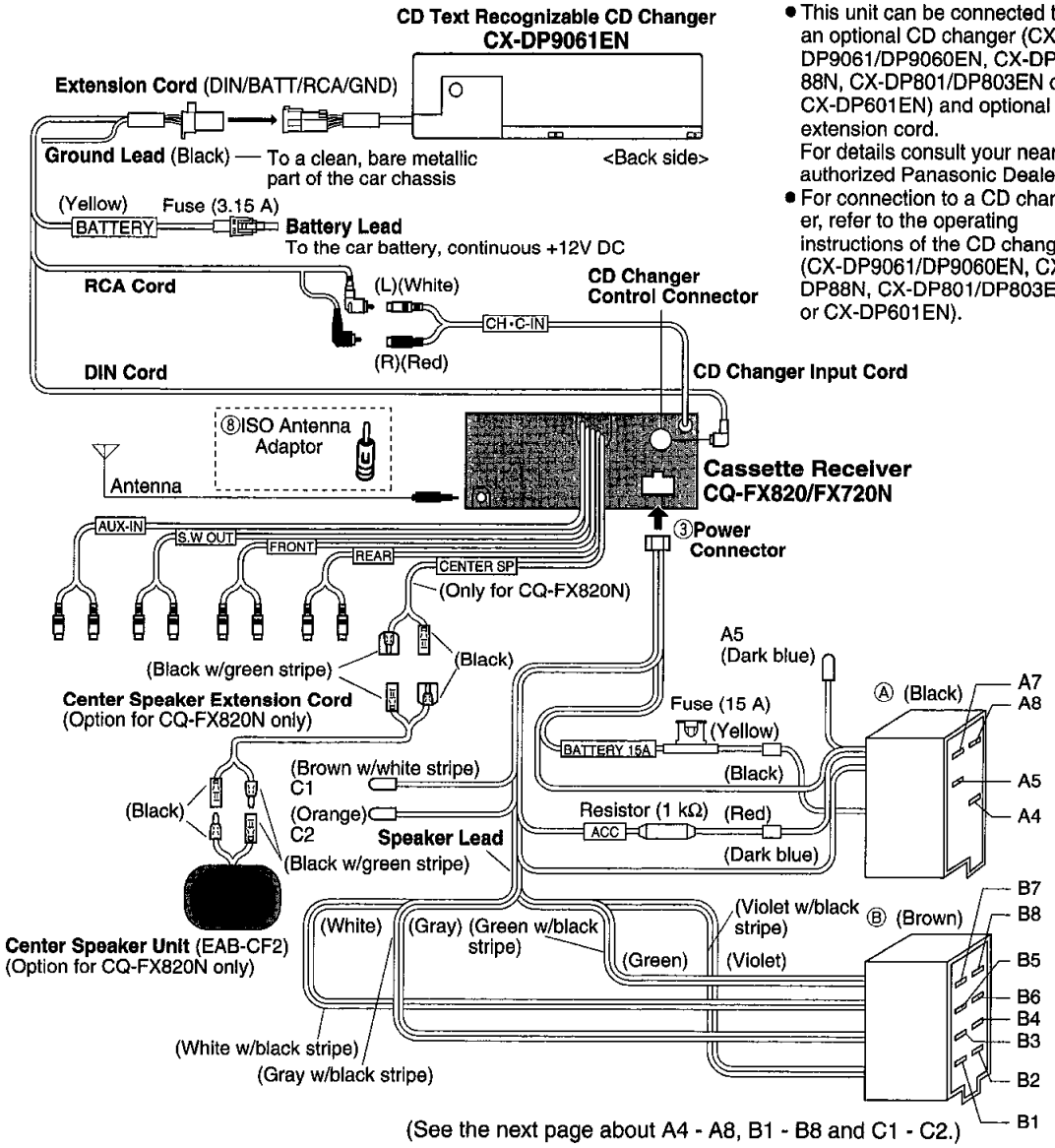


Note: The Velcro Tape fastener comes in pairs of loop (soft to the touch) and hook (hard to the touch) pieces. The loop and hook pieces must be used always in pairs. Stick two loop pieces to the car body and two hook pieces to the speaker, or vice versa.

Electrical Connection



Cable Wiring Diagram



- This unit can be connected to an optional CD changer (CX-DP9061/DP9060EN, CX-DP 88N, CX-DP801/DP803EN or CX-DP601EN) and optional extension cord.
  For details consult your nearest authorized Panasonic Dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP9061/DP9060EN, CX-DP88N, CX-DP801/DP803EN or CX-DP601EN).

(See the next page about A4 - A8, B1 - B8 and C1 - C2.)

Loudspeakers (Connector Ⓑ : B1 – B8)

	Left +	Left –	Right +	Right –
Front	B5 (White)	B6 (White w/black stripe)	B3 (Gray)	B4 (Gray w/black stripe)
Rear	B7 (Green)	B8 (Green w/black stripe)	B1 (Violet)	B2 (Violet w/black stripe)

A4

Battery Lead (Yellow)
To the car battery, continuous +12V DC

A5

Motor Antenna Relay Control Lead (Dark blue)
(To Motor Antenna) (Max. 500 mA)
This lead is not intended for use with switch actuated power antenna.
Amp. Relay Control Power Lead (Dark blue)
This lead is for connection to Panasonic power amplifier.

A7

Power Lead (ACC or IGN) (Red)
To ACC power, +12V DC

A8

Ground Lead (Black)
To a clean, bare metallic part of the car chassis

C1

Not used

C2

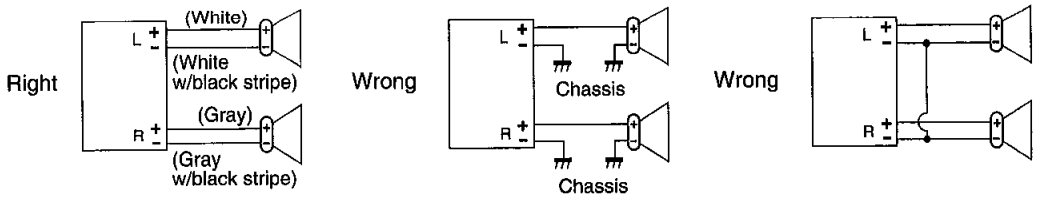
Telephone Mute Lead (Orange)
Connect to the car telephone mute lead.
Note: This telephone mute lead is for connection only to the radio mute lead. Be sure to ascertain this because it will not work with other type of output system.
Navi Mute Lead (Orange)
Connect to the Navi Mute lead of the Panasonic car navigation system (for example, CN-DV2000 EN).

Notes:
Telephone Mute
The sound from the speakers cannot be heard while the telephone conversation is in progress.
Navi Mute
The sound from the speakers cannot be heard while the navigation voice guide is on.

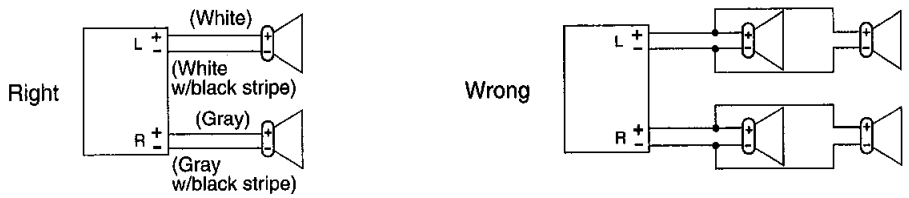
Speaker Connections

Cautions:
1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 47 W (CQ-FX820N), 40 W (CQ-FX720N) of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 Ω. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or the unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30 cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

• Unit will be damaged if speakers (Front, Rear) are not connected properly.



• Do not connect more than one speaker to one set of speaker leads.



NOTE: Recommended External Amp. Combination (Example)

Preamp out (rear/front)	→	CY-M9054 (4ch system)
Sub-Woofer out	→	CY-M9054 (2ch system)
		or
		CY-M7052 (1ch system) (Only for CQ-FX720N)

Fuse

Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, contact your nearest authorized Panasonic Service Center.

Maintenance

Your product is designed and manufactured to ensure the minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvents.

Specifications

General

Power Supply	: DC 12 V (11 V - 16 V), test voltage 14.4 V, negative ground
Tone Controls	: Bass; ±12 dB at 100 Hz Treble; ±12 dB at 10 kHz
Current Consumption	: Less than 2.5 A (tape mode, 0.5 W 4-speaker)
Maximum Power Output	: 47 W x 4 (at 4 Ω)(CQ-FX820N) 45 W x 4 (at 4 Ω)(CQ-FX720N)
Power Output	: 22 W x 4 (DIN45 324, at 4 Ω)(CQ-FX820N) 20 W x 4 (DIN45 324, at 4 Ω)(CQ-FX720N)
Center Speaker Output	: 5 W (only for CQ-FX820N)
Speaker Impedance	: 4 - 8 Ω
Dimensions (Main Unit)	: 178(W) x 50(H) x 150(D) mm
Weight (Main Unit)	: 1.5 kg
Pre-Amp Output Voltage	: 5 V (CQ-FX820N) 2 V (CQ-FX720N)
Pre-Amp Output Impedance	: 600 Ω
Sub-Woofer Output Voltage	: 5 V (CQ-FX820N) 2 V (CQ-FX720N)

FM Stereo Radio

Frequency Range	: 87.5 - 108 MHz
Usable Sensitivity	: 6 dB/μV (S/N 30 dB)
Stereo Separation	: 35 dB (at 1 kHz)

MW Radio

Frequency Range	: 531 - 1,602 kHz
Usable Sensitivity	: 28 dB/μV (S/N 20 dB)

LW Radio

Frequency Range	: 153 - 279 kHz
Usable Sensitivity	: 32 dB/μV (S/N 20 dB)

Cassette Player

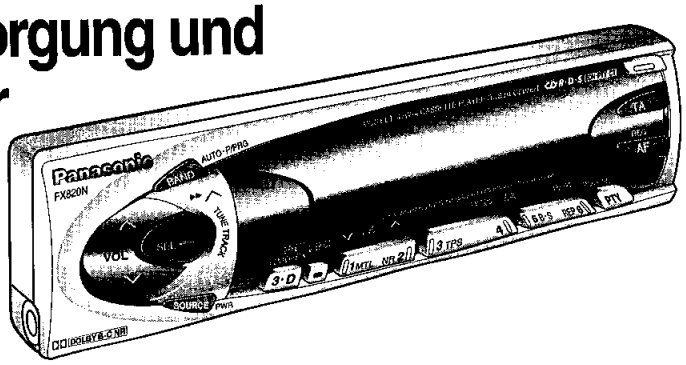
Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76 cm/sec.
FF/REW Time	: Less than 110 sec. (C-60)
Frequency Response	: 30 - 17,000 Hz (normal) 30 - 18,000 Hz (metal)
Wow and Flutter	: 0.12 % (WRMS)
Signal to Noise Ratio	: 52 dB (Dolby off) 62 dB (Dolby B NR on) 72 dB (Dolby C NR on) (only for CQ-FX820N)

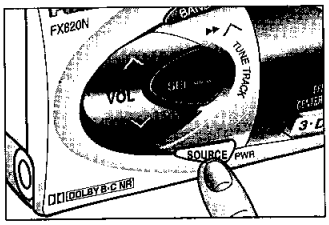
Note: Specifications and the design are subject to modification without notice due to improvements in technology.

Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⒹⒹ are trademarks of Dolby Laboratories Licensing Corporation.

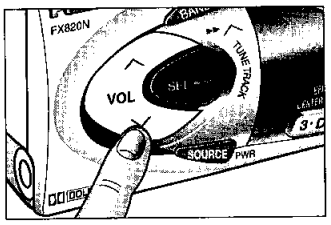
Stromversorgung und Klangregler





Stromversorgung

Den Schlüssel im Zündschloß drehen, bis die ACC-Kontrollampe aufleuchtet.
Drücken Sie die **[SOURCE]**(PWR)-Taste, um das Gerät einzuschalten.
Betätigen Sie erneut die **[SOURCE]**(PWR)-Taste und halten Sie diese für mindestens 2 Sekunden gedrückt, um die Stromversorgung auszuschalten. Wenn die Stromversorgung ausgeschaltet wird, ertönt der Alarm für dass Abnehmen des Bedienteils (für Einzelheiten über den Alarm für das Abnehmen des Bedienteils siehe Seite 77).
Hinweis: Wenn die Stromversorgung zum ersten mal eingeschaltet wird, erscheint eine Demonstrationsanzeige. Um diese Anzeige auszublenden, die [▬](DISP/CT) drücken.



Lautstärke

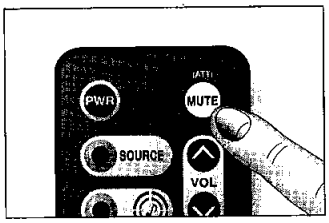
- Betätigen Sie die Taste **[∧VOL]** oder **[∨VOL]**, um die Lautstärke anzuheben oder abzusenken.

Lautstärkepegel (0 bis 40)

- Drücken und halten Sie die Taste **[∧VOL]** oder **[∨VOL]** für länger als eine halbe Sekunde nieder, um den numerischen Pegel im Display sequentiell zu ändern.

Hinweis: In dem VOL-Modus kehrt das Display in den normalen Betriebsmodus zurück, wenn für länger als 2 Sekunden keine Operation durchgeführt wird.

Lautstärke-Anhebefunktion
Dieses Gerät ist mit einer Sicherheitsfunktion ausgestattet, welche den Lautstärkepegel nach dem Wiedereinschalten der Stromversorgung langsam anhebt, wenn diese bei einem bestimmten Pegel von (20) oder höher ausgeschaltet wurde.



Stummschaltung (Nur für Fernbedienung)

- Drücken Sie die **[MUTE]**-Taste, um den Ton Abzusenken.

- Die **[MUTE]**-Taste erneut drücken, um die Abschwächungsfunktion wieder aufzuheben.